

<p>2003-697448/66</p> <p>A97 D21 E24 G01 (A25</p> <p>BADI 2002.02.04</p> <p>BASF AG</p> <p>G02)</p> <p>2002.06.24 2002-1028199(+2002DE-1004583) (2003.08.14) C09B</p> <p>67/20, 67/42, C09C 3/10, C09D 11/00</p> <p>*WO 2003066743-A1</p>	<p>A(5-H1A, 11-A4, 11-B5D, 12-W7E, 12-W11HD) D(8-B1, 8-B13) E(5-G, 10-A9A, 10-A9B, 10-H1D, 27-A1) G(1-B1, 2-A3A, 2-A3D)</p>
<p>Pigment composition, useful in paints, inks and building materials, comprises a pigment, a non-ionic polyether based surfactant and an anionic sulfonate, sulfate, phosphonate or phosphate based surfactant (Ger)</p> <p>C2003-191742 N(AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW) R(AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW)</p> <p>Addnl. Data: REISACHER H, GONZALEZ GOMEZ J A</p> <p>2003.01.30 2003WO-EP00921, 2002.06.24 2002DE-1028199</p>	<p>A pigment composition (I) comprises (A) 60-90 wt. % of a pigment; (B) 10-40 wt. % of a non-ionic polyether based surfactant; and (C) 0.1-10 wt. % of an anionic sulfonate, sulfate, phosphonate or phosphate based surfactant.</p> <p><b>DETAILED DESCRIPTION</b></p> <p><b>INDEPENDENT CLAIMS</b> are also included for</p> <p>(i) a process for the production of the pigment composition (I) by wet grinding of the pigment (A) in an aqueous suspension containing at least a portion of (B) optionally in the presence of (C) or followed by addition of (C) and the remaining quantity of (B); and</p> <p>(ii) a process for the coloring of high mol. wt. organic or inorganic materials by application of the pigment composition (I).</p> <p><b>USE</b></p> <p>The pigment composition (I) is useful in paints, inks, building materials, cement, mortar, sealants, paper, card, adhesives, pharmaceuticals, cosmetics and detergents.</p>
<p>NOVELTY</p>	<p>WO 2003066743-A+</p>

#### ADVANTAGE

The pigment composition (I) has color and dispersion properties that are comparable to liquid systems.

#### EXAMPLE

A pigment composition was prepared by grinding a suspension of pigment (yellow iron oxide; C.I. Pigment Yellow 42; 80 kg) and an ethylene diamine/propylene oxide/ethylene oxide block copolymer (19 kg;  $M_n$  12000; 40 wt. % ethylene oxide) in water (120 kg) to  $d_{50}$  value of 0.8  $\mu m$ . Di-isobutylphthalene sulfonic acid trisodium salt (1 kg) was then added and the mixture spray-granulated (gas inlet temperature 170°C, gas outlet temperature 80°C). The resulting granulate had an average particle size ( $d_{50}$ ) of 310  $\mu m$  and surface area of 5  $m^2/g$ .

#### TECHNOLOGY FOCUS

Organic Chemistry - Preferred Composition: (B) contains an alkylene oxide block copolymer, preferably an alkylene oxide adduct of at least one bifunctional amine or alcohol. (C) is an aryl sulfonate and/or ether sulfate or ether phosphate. The composition (I) has an average particle size of 50-5000  $\mu m$  and BET surface area of no greater than 15  $m^2/g$ .

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